

100

Fig. 1

Prior Art

Decoding Reed-Solomon Codes and Related Codes Represented by Graphs

Inventor: Yedidia
Filed: December 4, 2003

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+	0	1
0	0	1
0	1	0

*	0	1
0	0	0
1	0	1

Fig. 2

Prior Art

+				*			
0	1	2		0	1	2	
0	0	1	2	0	0	0	0
1	1	2	0	1	0	1	2
2	2	0	1	2	0	2	1

Fig. 3
Prior Art

+	0	1	2	3	*	0	1	2	3
0	0	1	2	3	0	0	0	0	0
1	1	0	3	2	1	0	1	2	3
2	2	3	0	1	2	0	2	3	1
3	3	2	1	0	3	0	3	1	2

Fig. 4
Prior Art

+	0	1	2	3	4	*	0	1	2	3	4
0	0	1	2	3	4	0	0	0	0	0	0
1	1	2	3	4	0	1	0	1	2	3	4
2	2	3	4	0	1	2	0	2	4	1	3
3	3	4	0	1	2	3	0	3	1	4	2
4	4	0	1	2	3	4	0	4	3	2	1

Fig. 5

Prior Art

+ 0 1 2 3 4 5 6 7								+ 0 1 2 3 4 5 6 7							
0	0	1	2	3	4	5	6	7	0	0	0	0	0	0	0
1	1	0	3	2	5	4	7	6	1	0	1	2	3	4	5
2	2	3	0	1	6	7	4	5	2	0	2	4	6	3	1
3	3	2	1	0	7	6	5	4	3	0	3	6	5	7	4
4	4	5	6	7	0	1	2	3	4	0	4	3	7	6	2
5	5	4	7	6	1	0	3	2	5	0	5	1	4	2	7
6	6	7	4	5	2	3	0	1	6	0	6	7	1	5	3
7	7	6	5	4	3	2	1	0	7	0	7	5	2	1	6

Fig. 6

Prior Art

+										*									
0	1	2	3	4	5	6	7	8		0	1	2	3	4	5	6	7	8	
0	0	1	2	3	4	5	6	7	8	0	0	0	0	0	0	0	0	0	0
1	1	2	0	4	5	3	7	8	6	1	0	1	2	3	4	5	6	7	8
2	2	0	1	5	3	4	8	6	7	2	0	2	1	6	8	7	3	5	4
3	3	4	5	6	7	8	0	1	2	3	0	3	6	4	7	1	8	2	5
4	4	5	3	7	8	6	1	2	0	4	0	4	8	7	2	3	5	6	1
5	5	3	4	8	6	7	2	0	1	5	0	5	7	1	3	8	2	4	6
6	6	7	8	0	1	2	3	4	5	6	0	6	3	8	5	2	4	1	7
7	7	8	6	1	2	0	4	5	3	7	0	7	5	2	6	4	1	8	3
8	8	6	7	2	0	1	5	3	4	8	0	8	4	5	1	6	7	3	2

Fig. 7

Prior Art

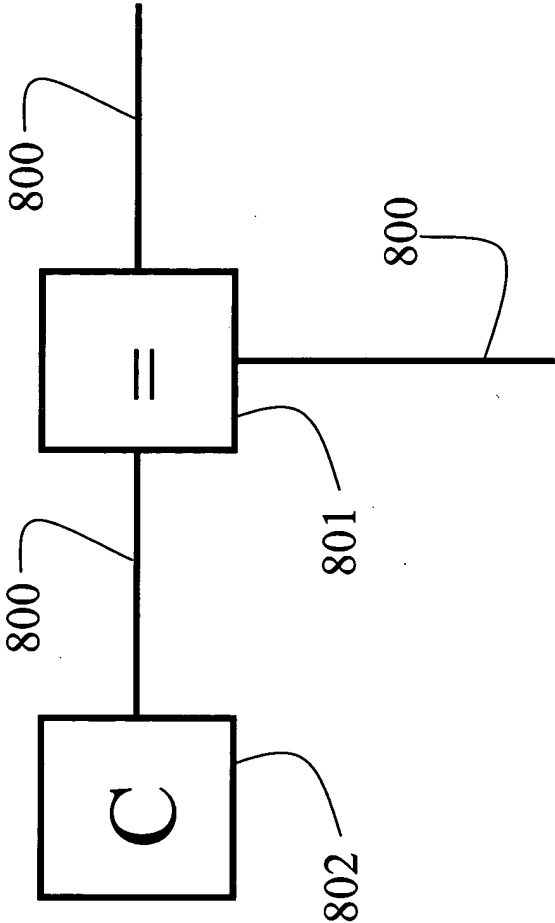


Fig. 8
Prior Art

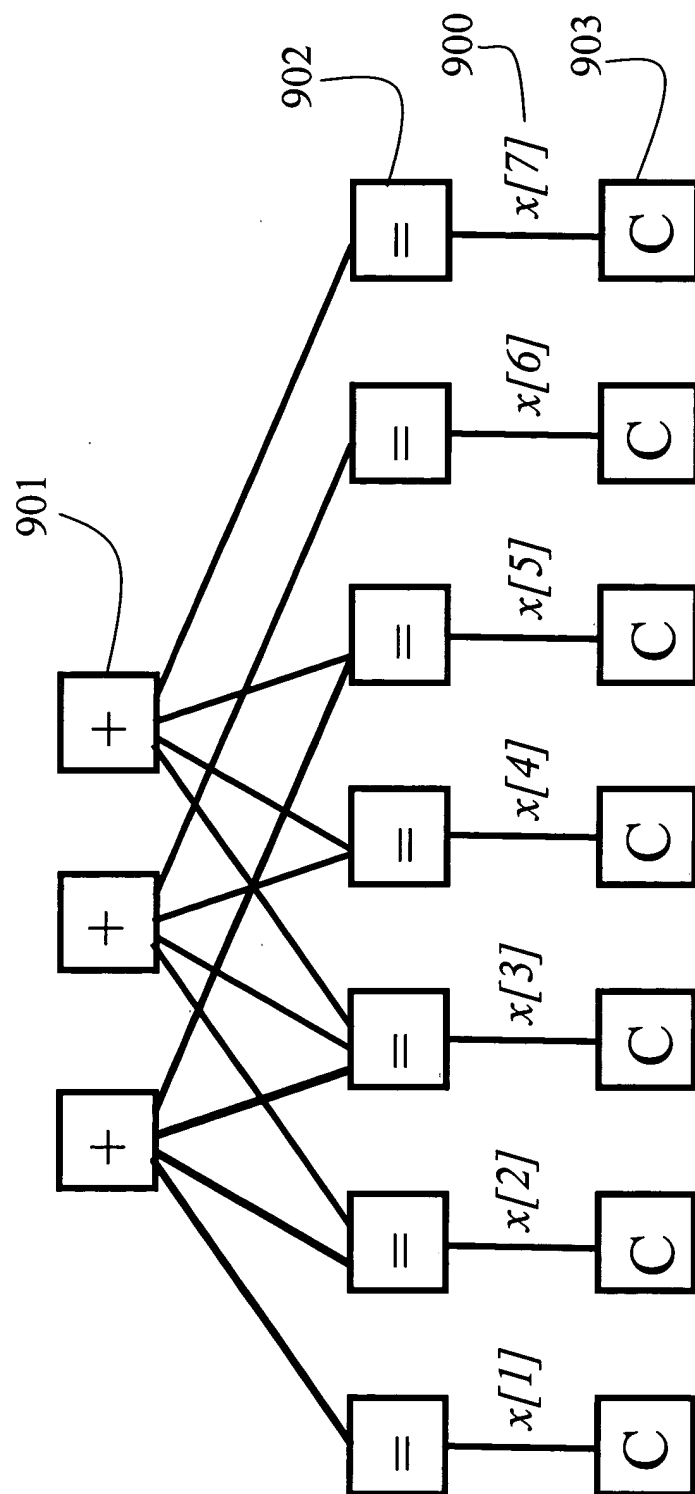


Fig. 9

Prior Art

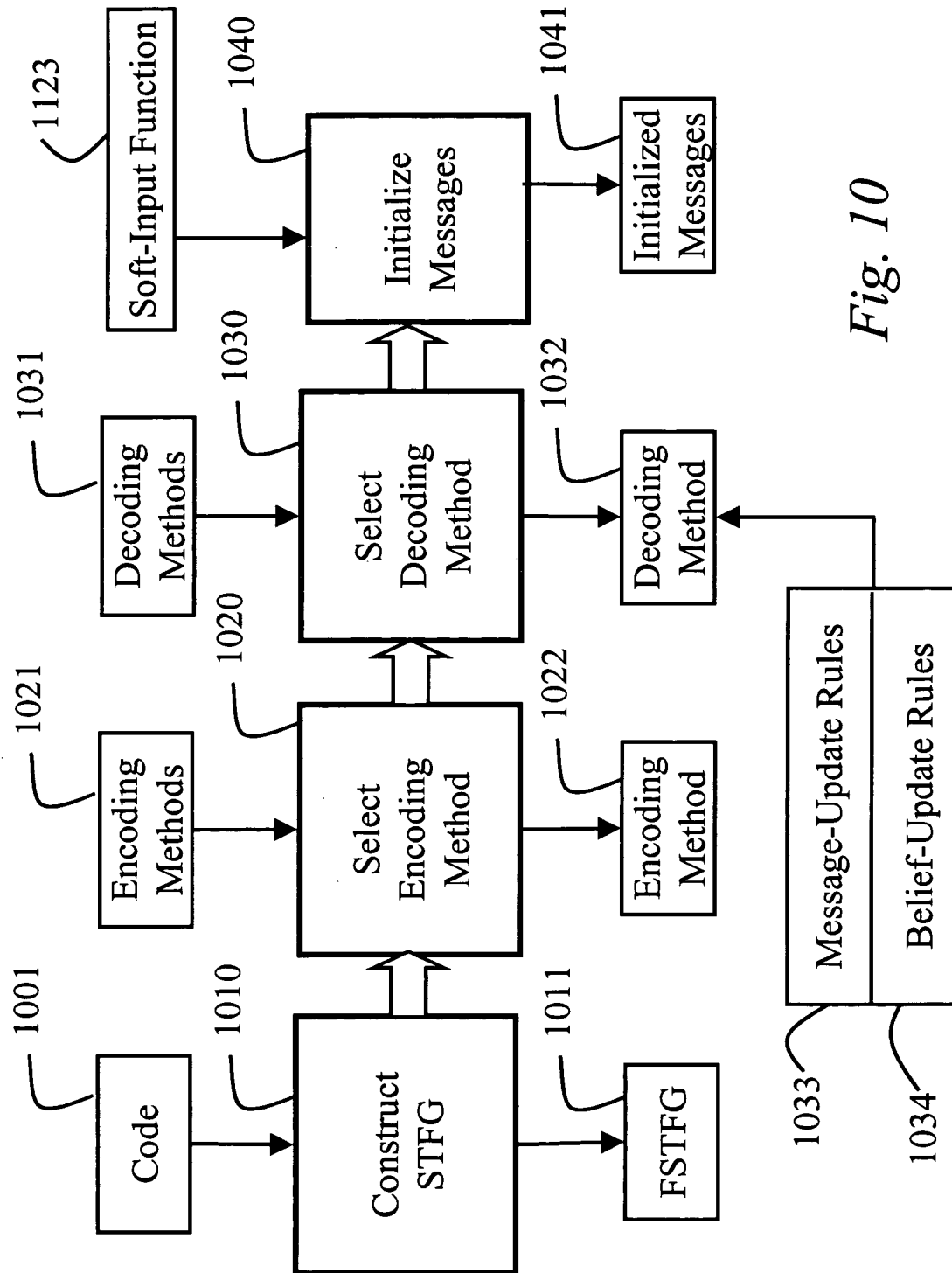


Fig. 10

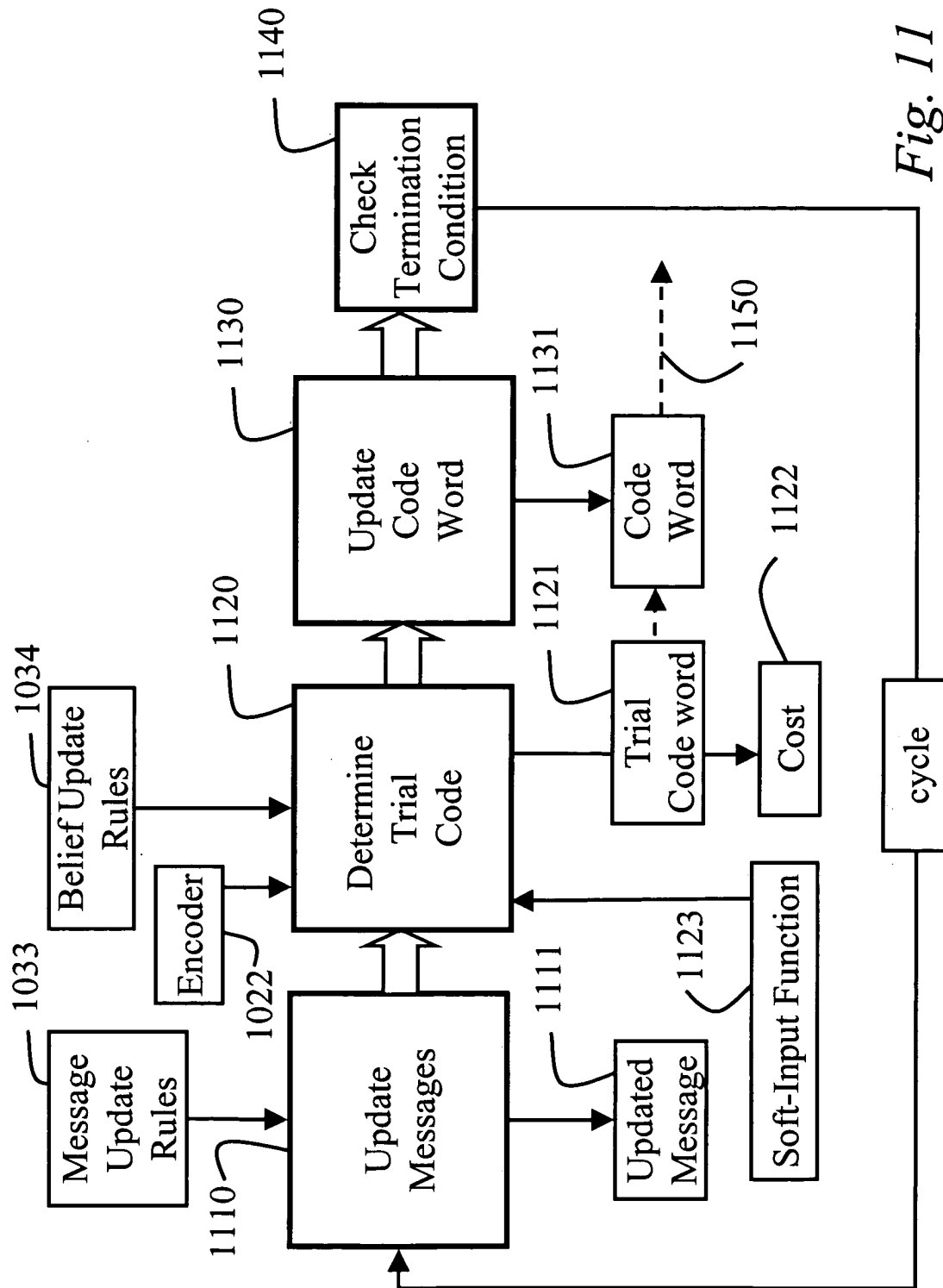


Fig. 11

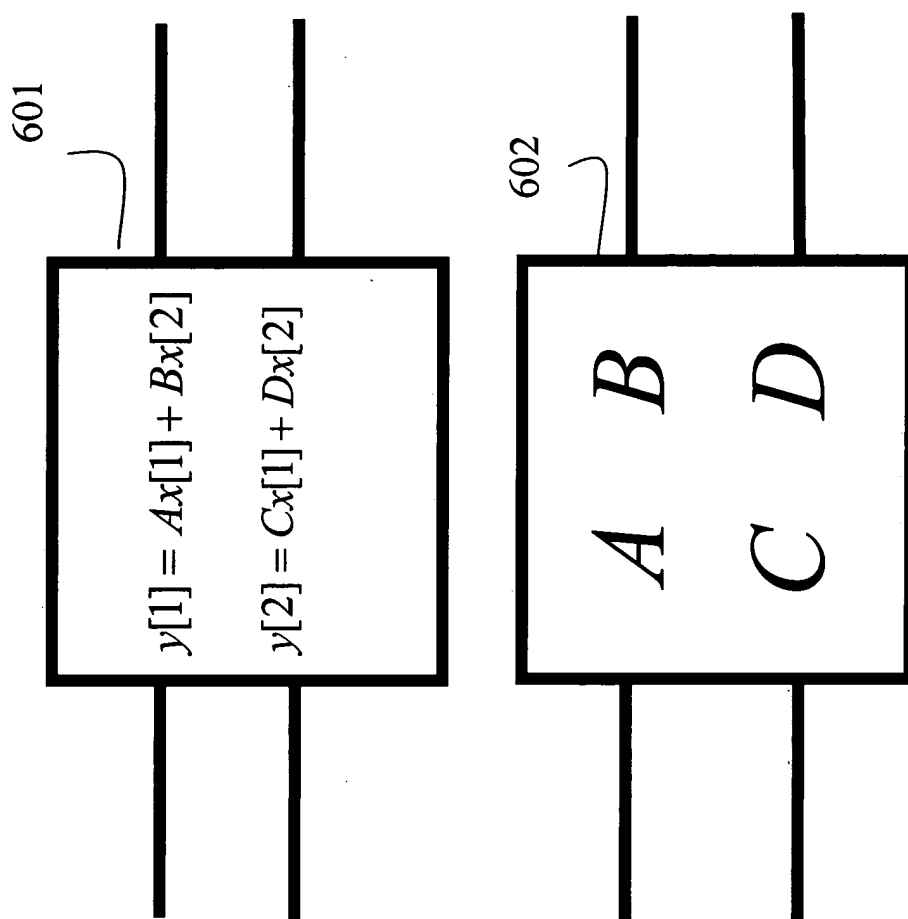


Figure 12

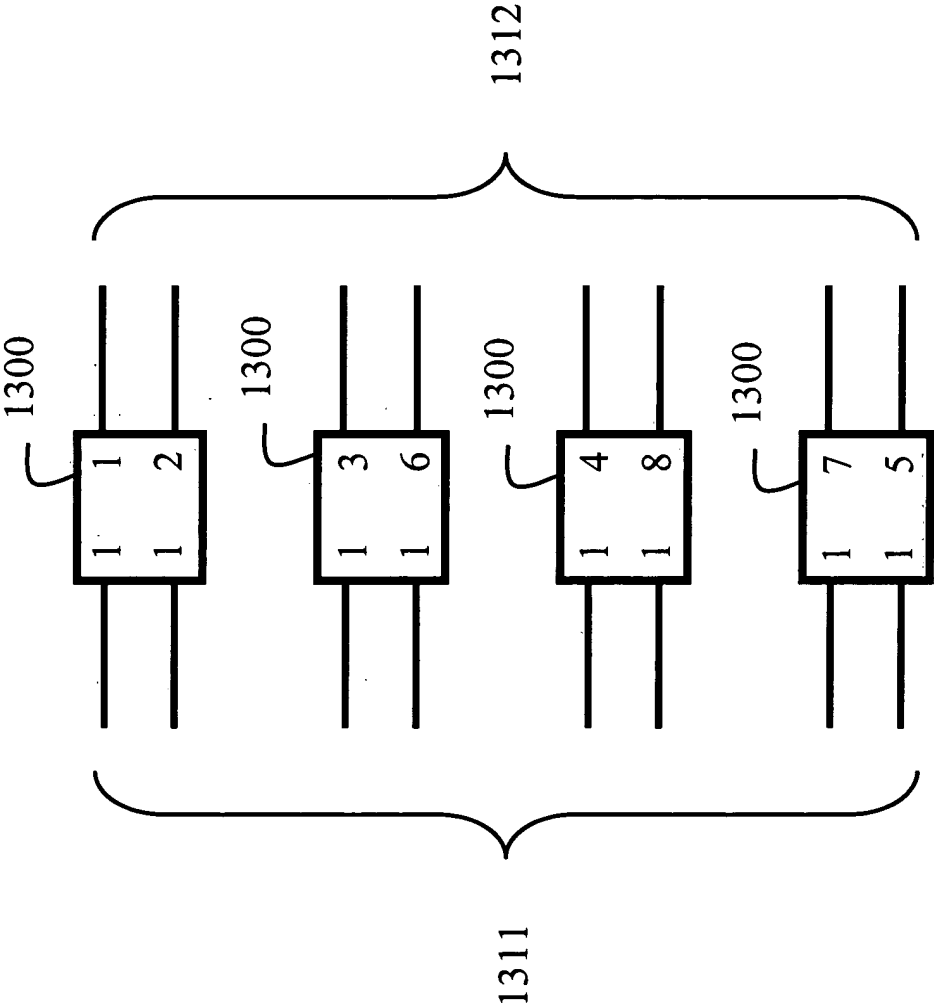


Figure 13

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Figure 14

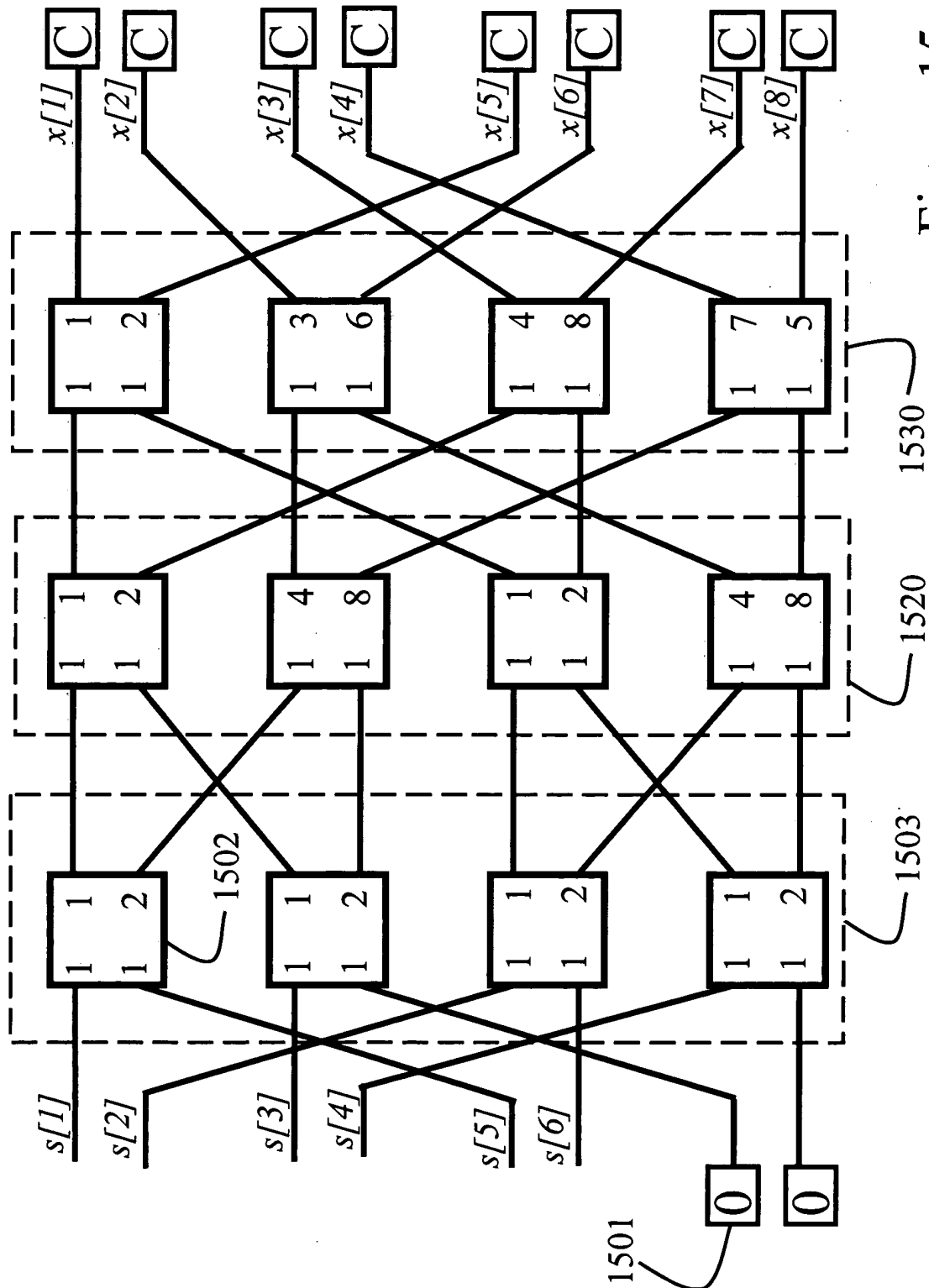


Figure 15

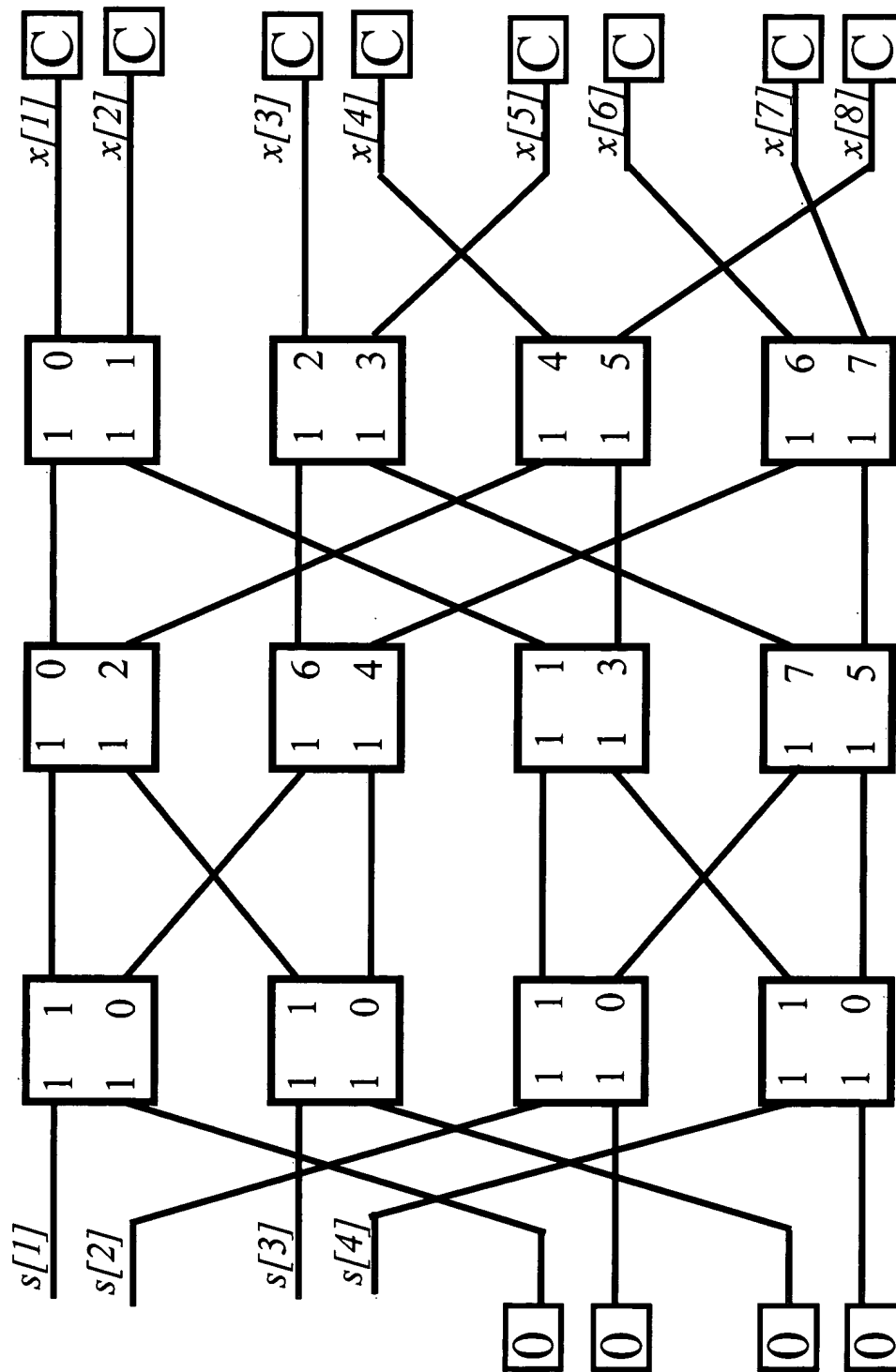


Figure 16

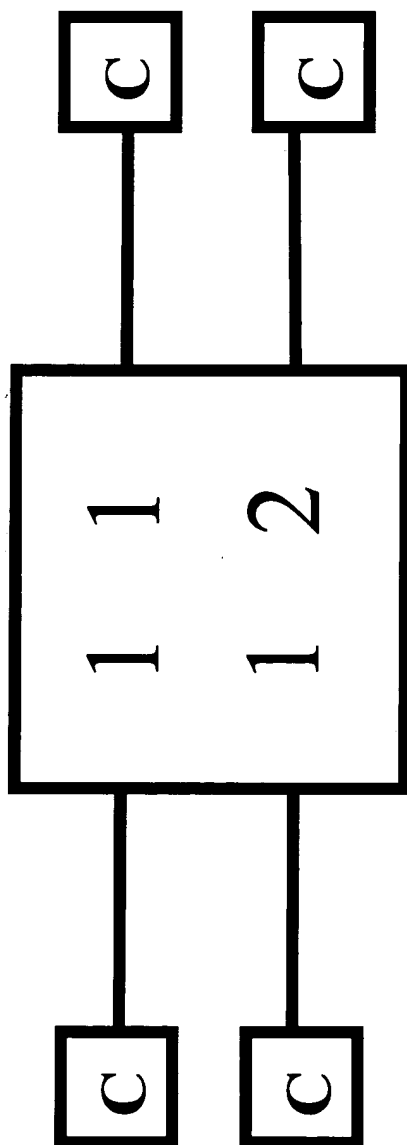


Figure 17

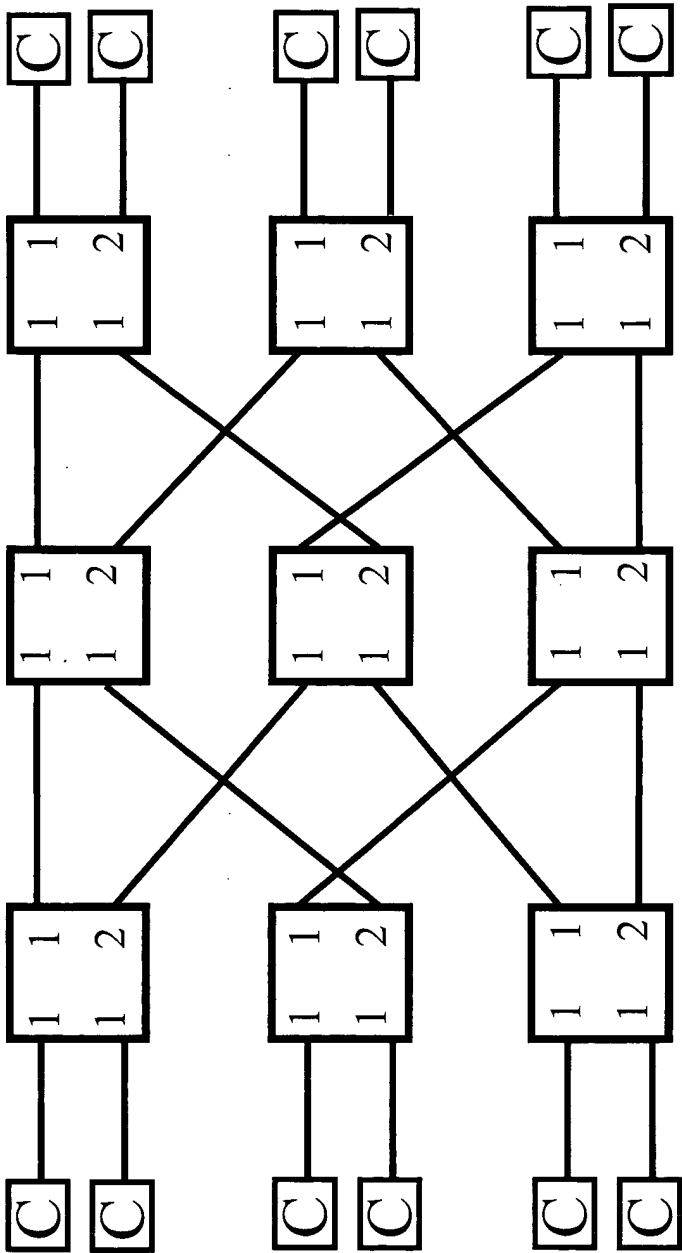


Figure 18

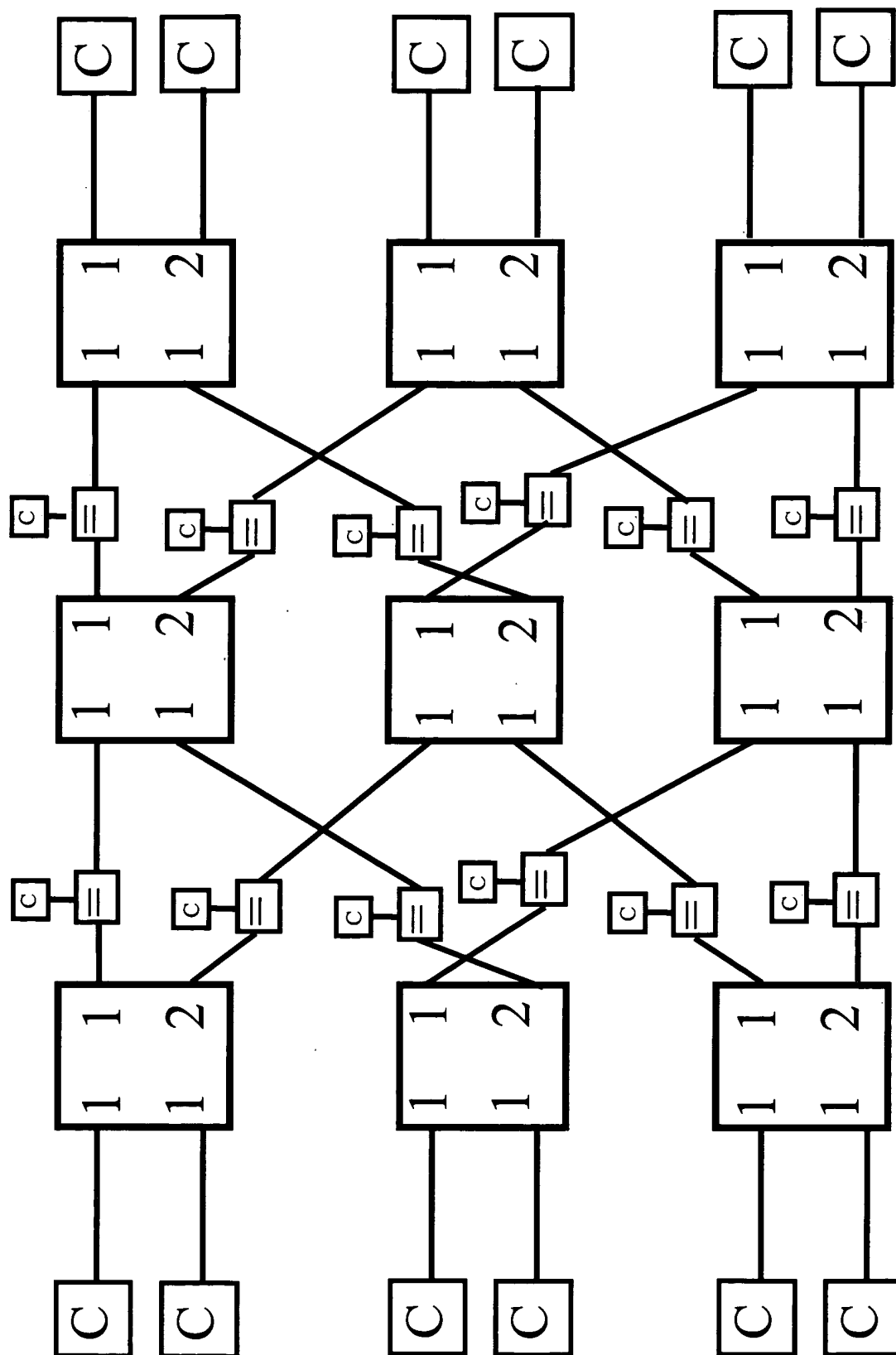
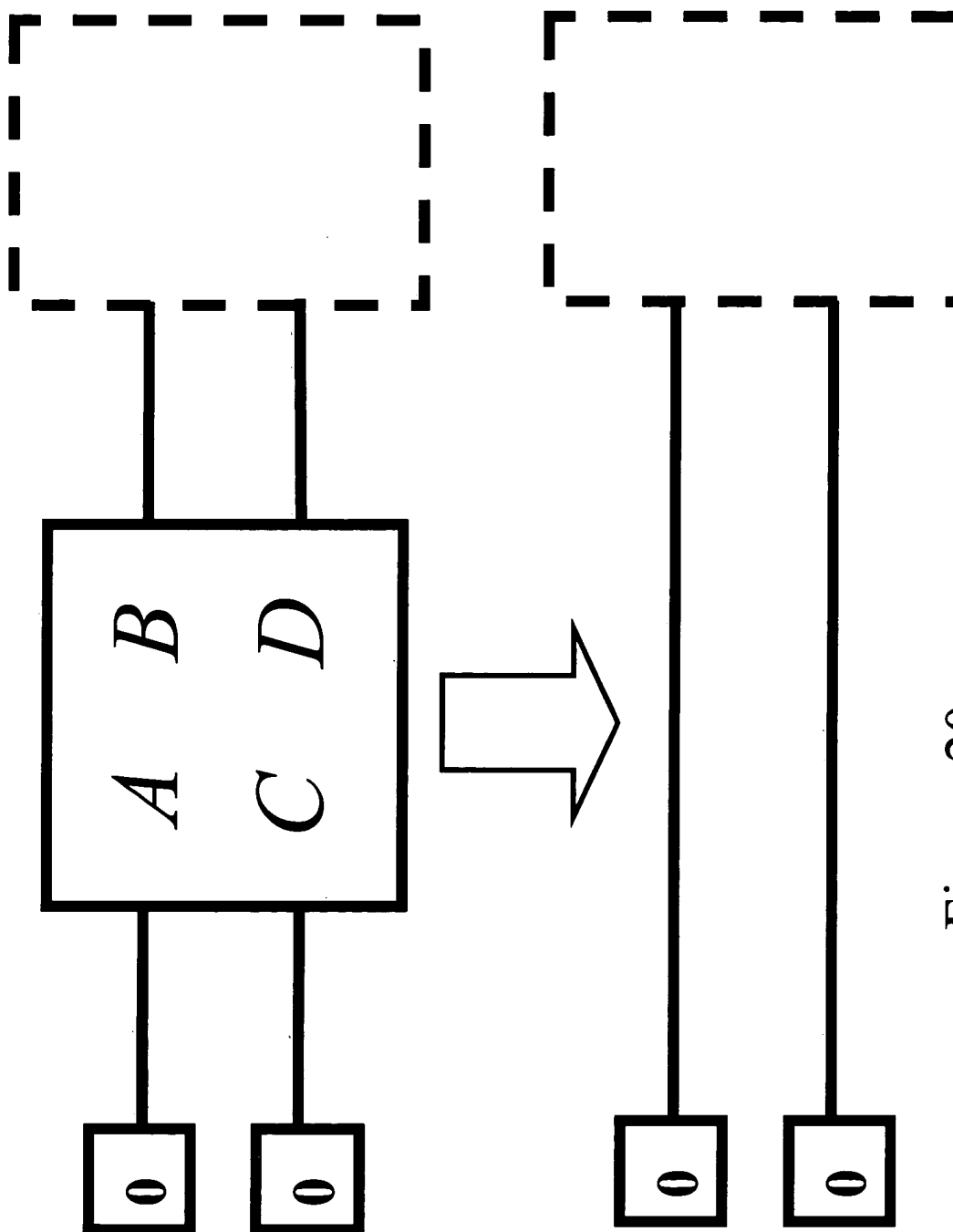


Figure 19



Decoding Reed-Solomon Codes and Related Codes Represented by Graphs

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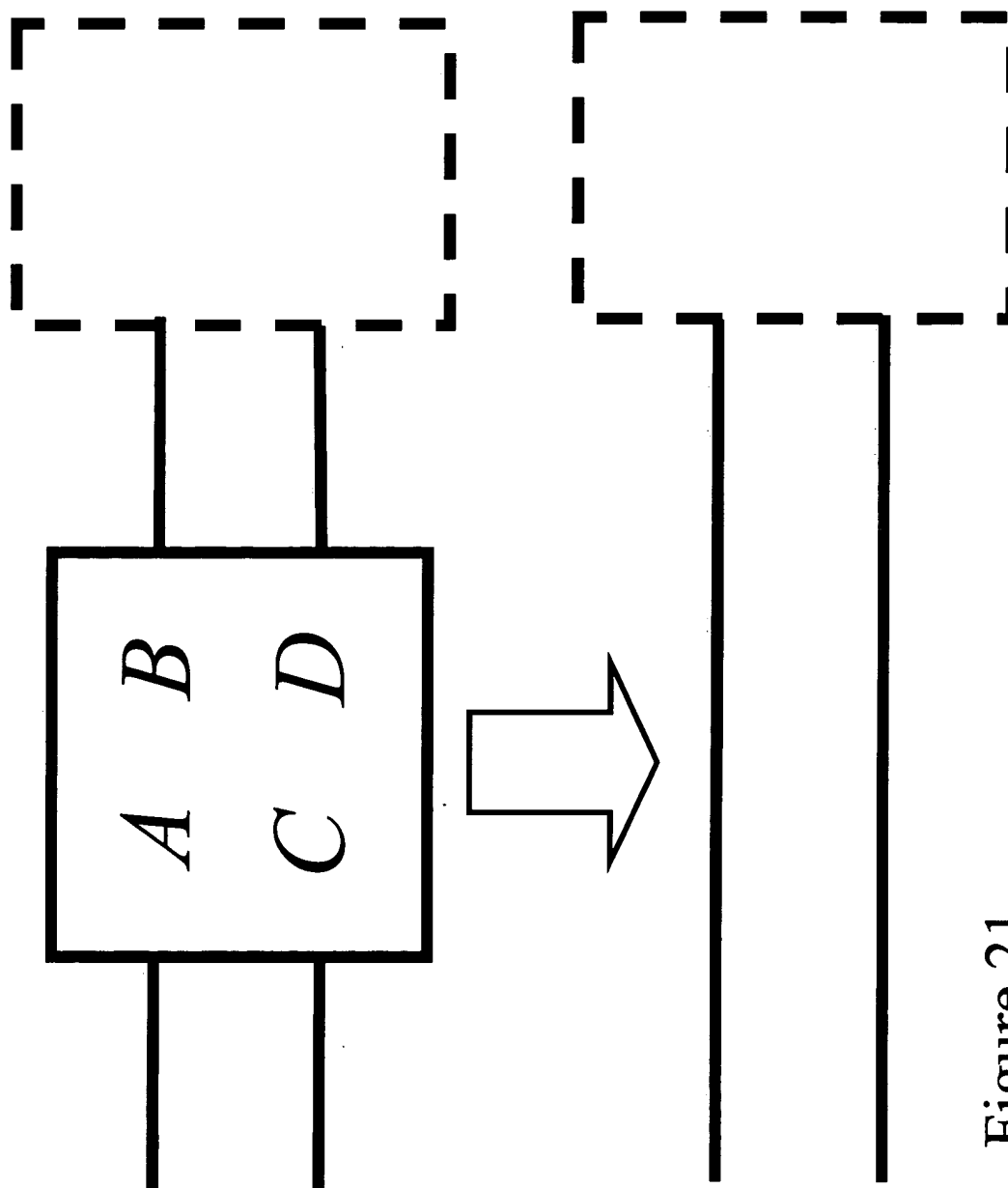


Figure 21

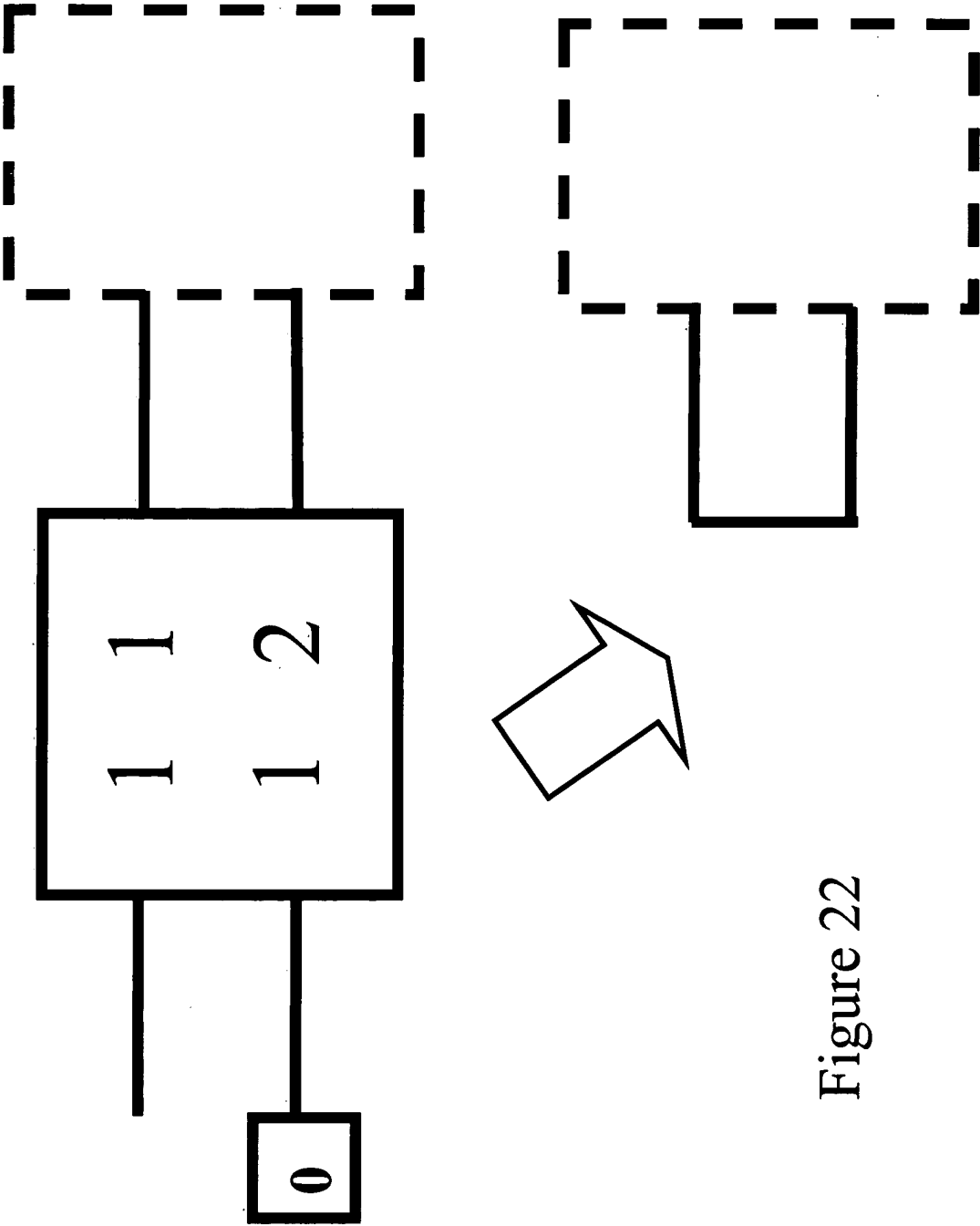


Figure 22

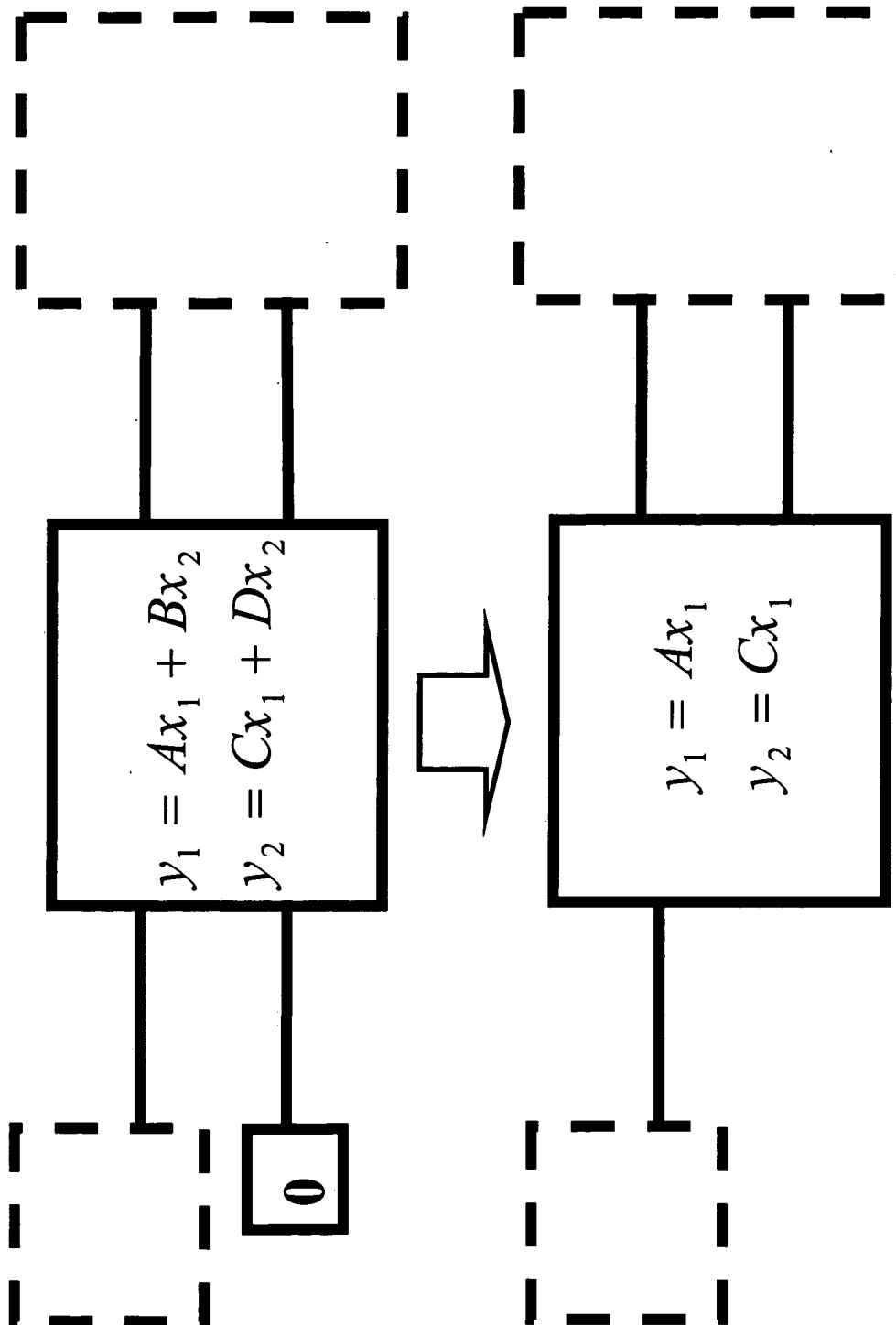


Figure 23

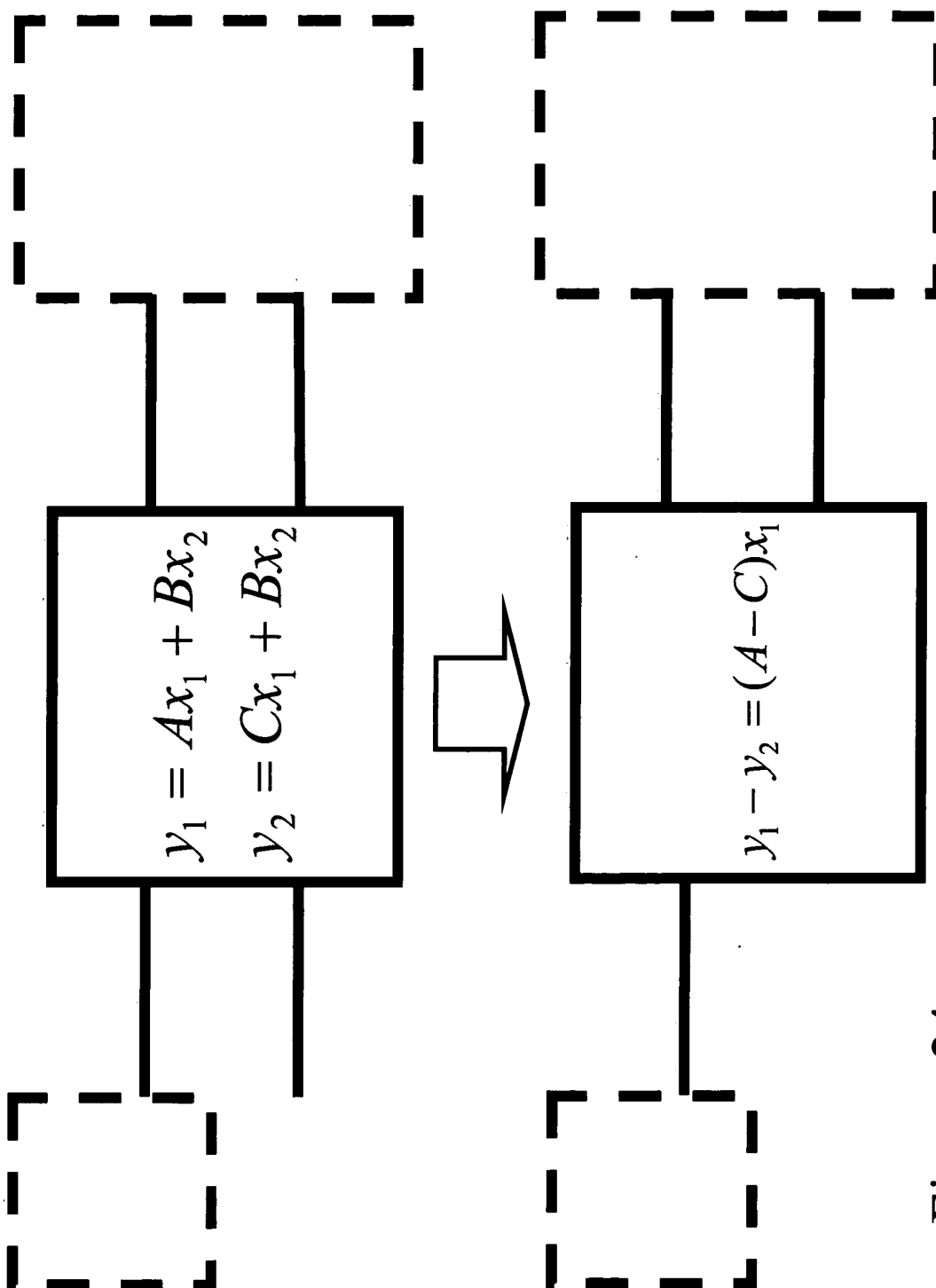


Figure 24

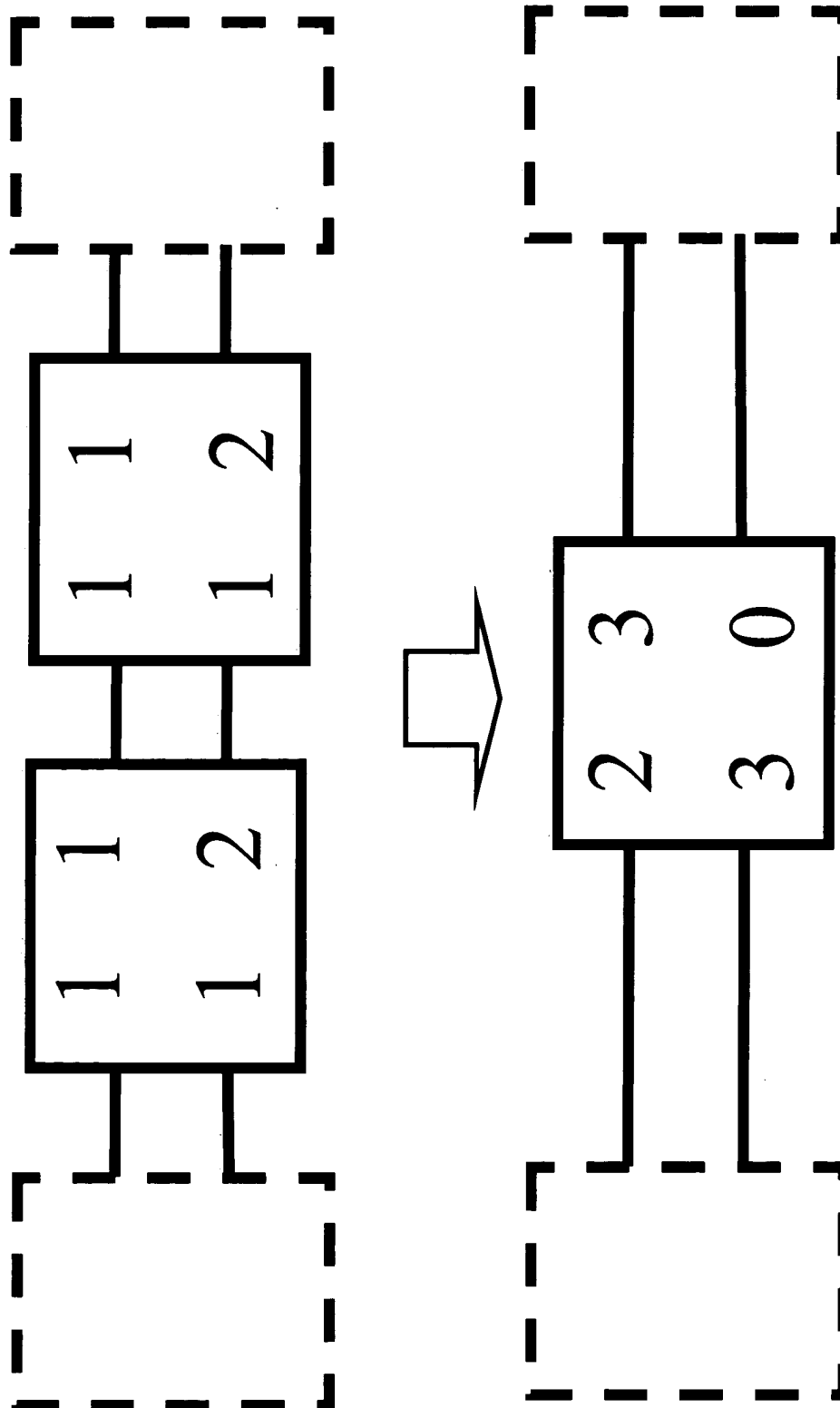


Figure 25

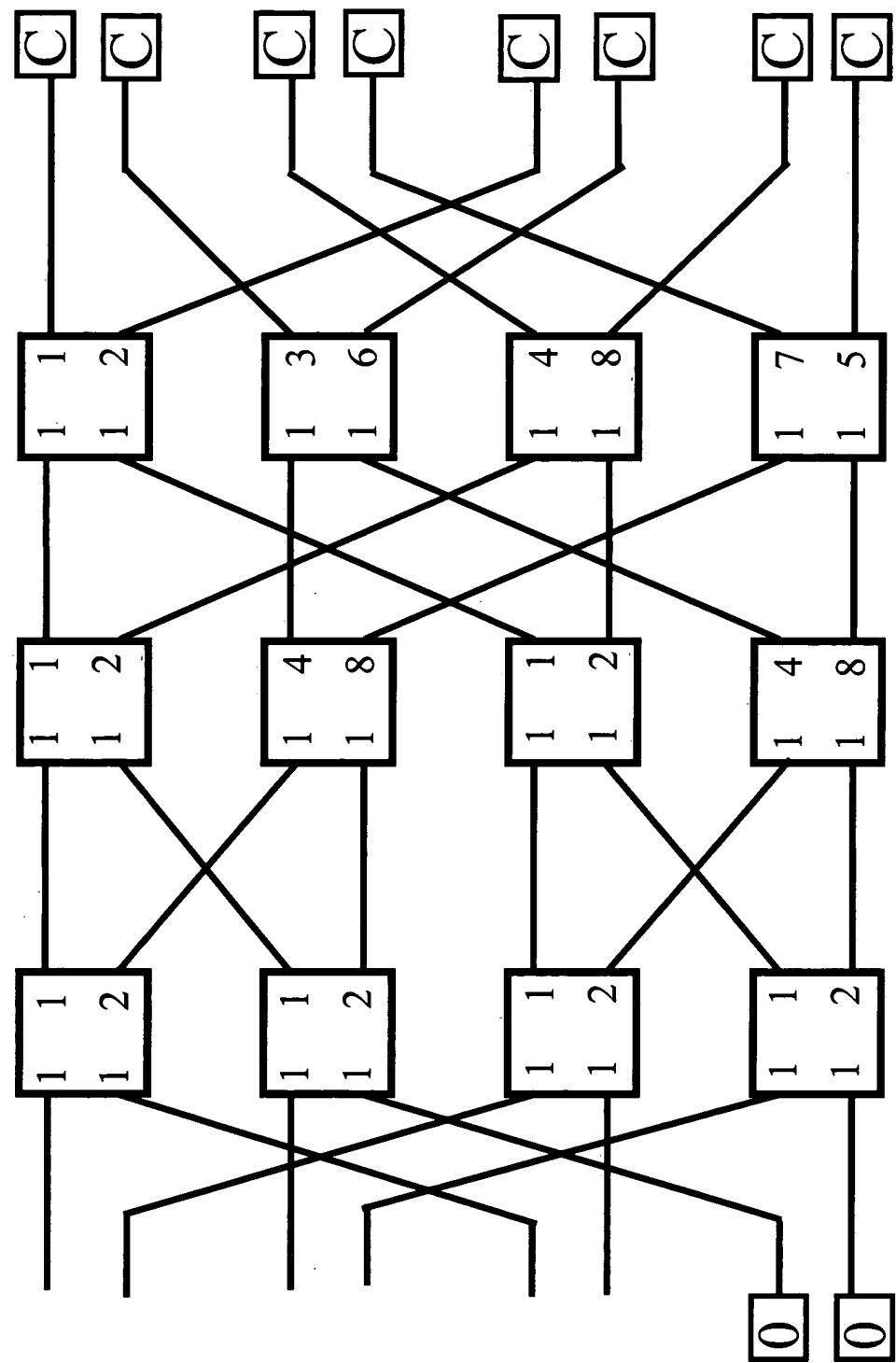


Figure 26

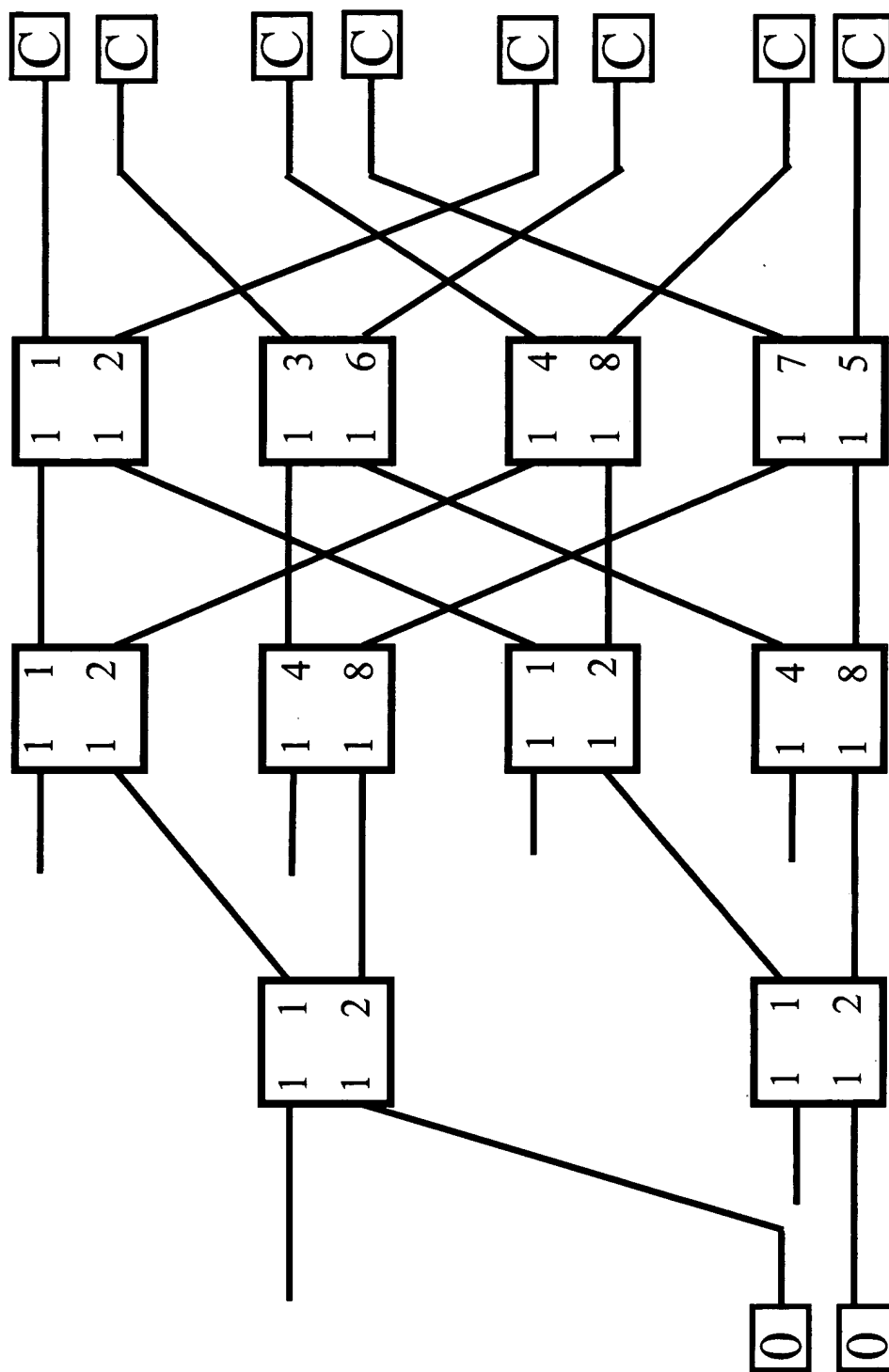


Figure 27

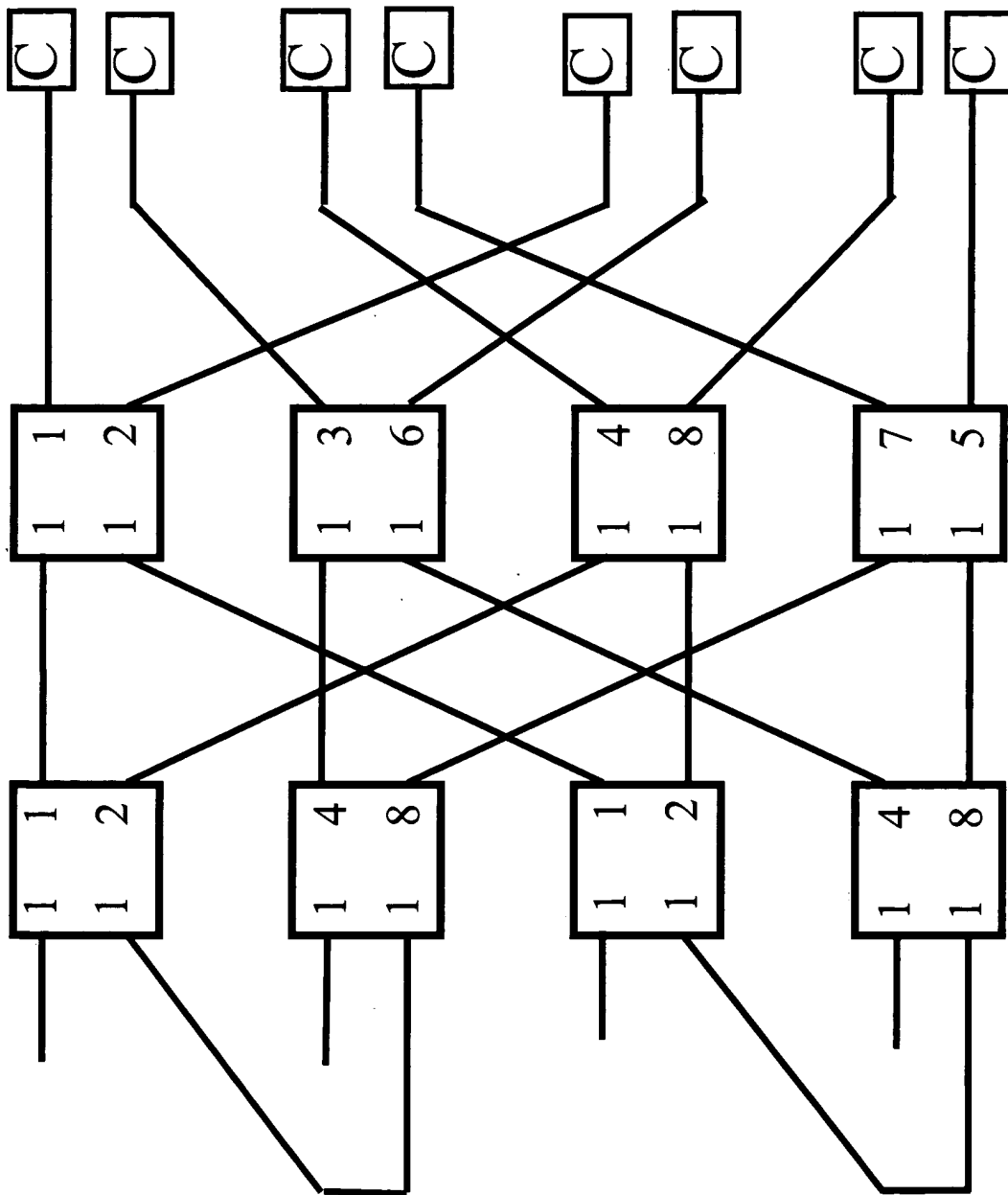


Figure 28

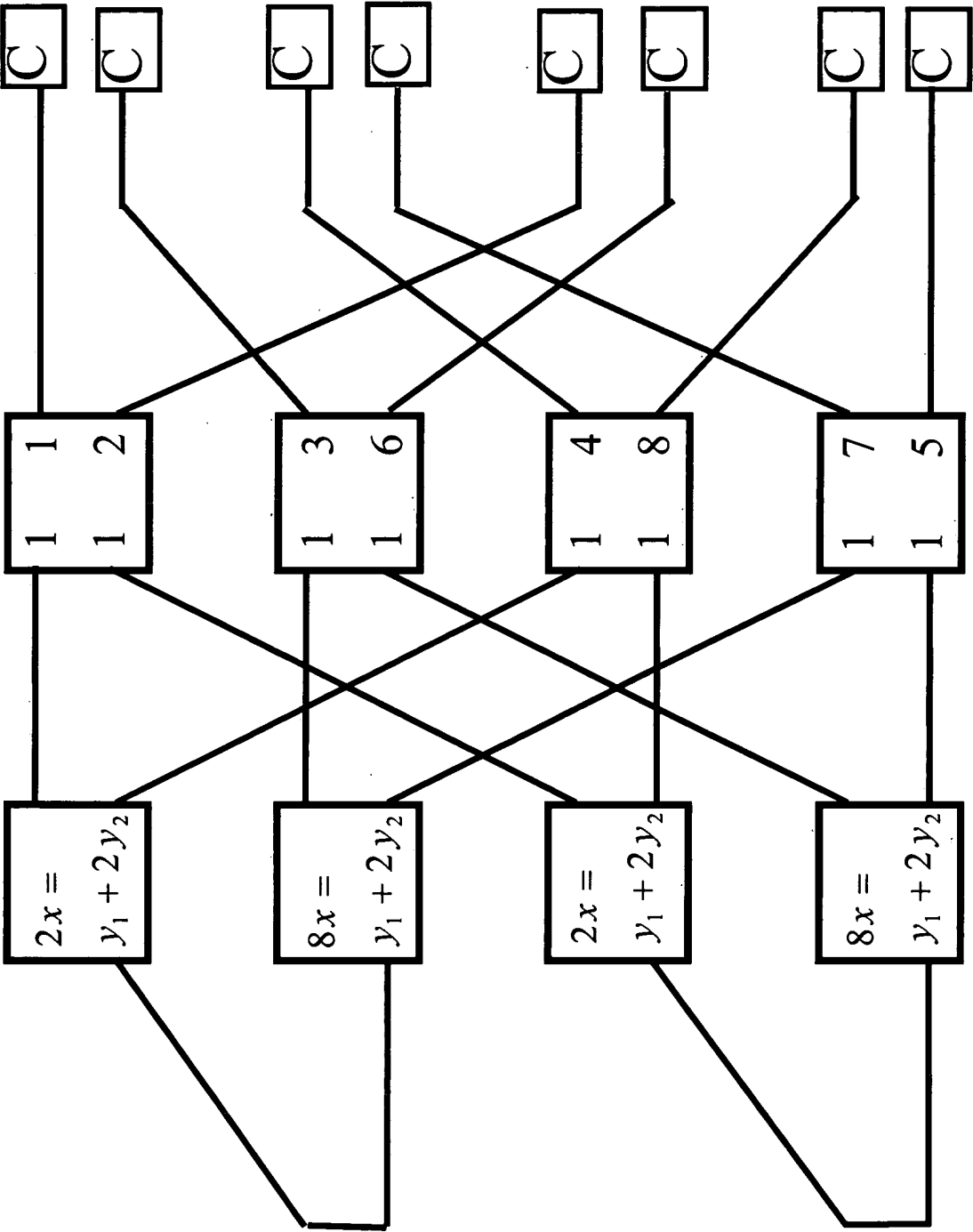


Figure 29

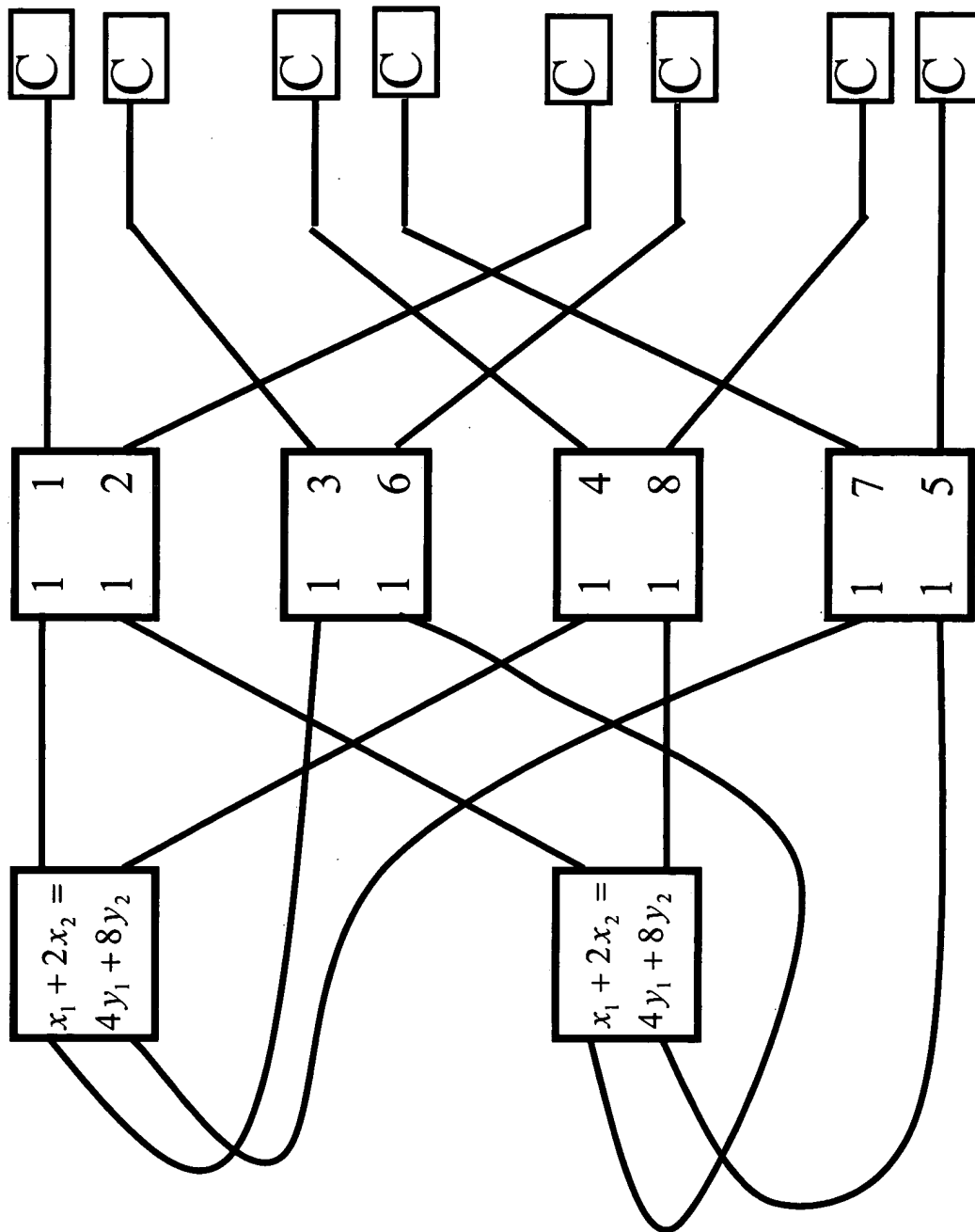


Figure 30

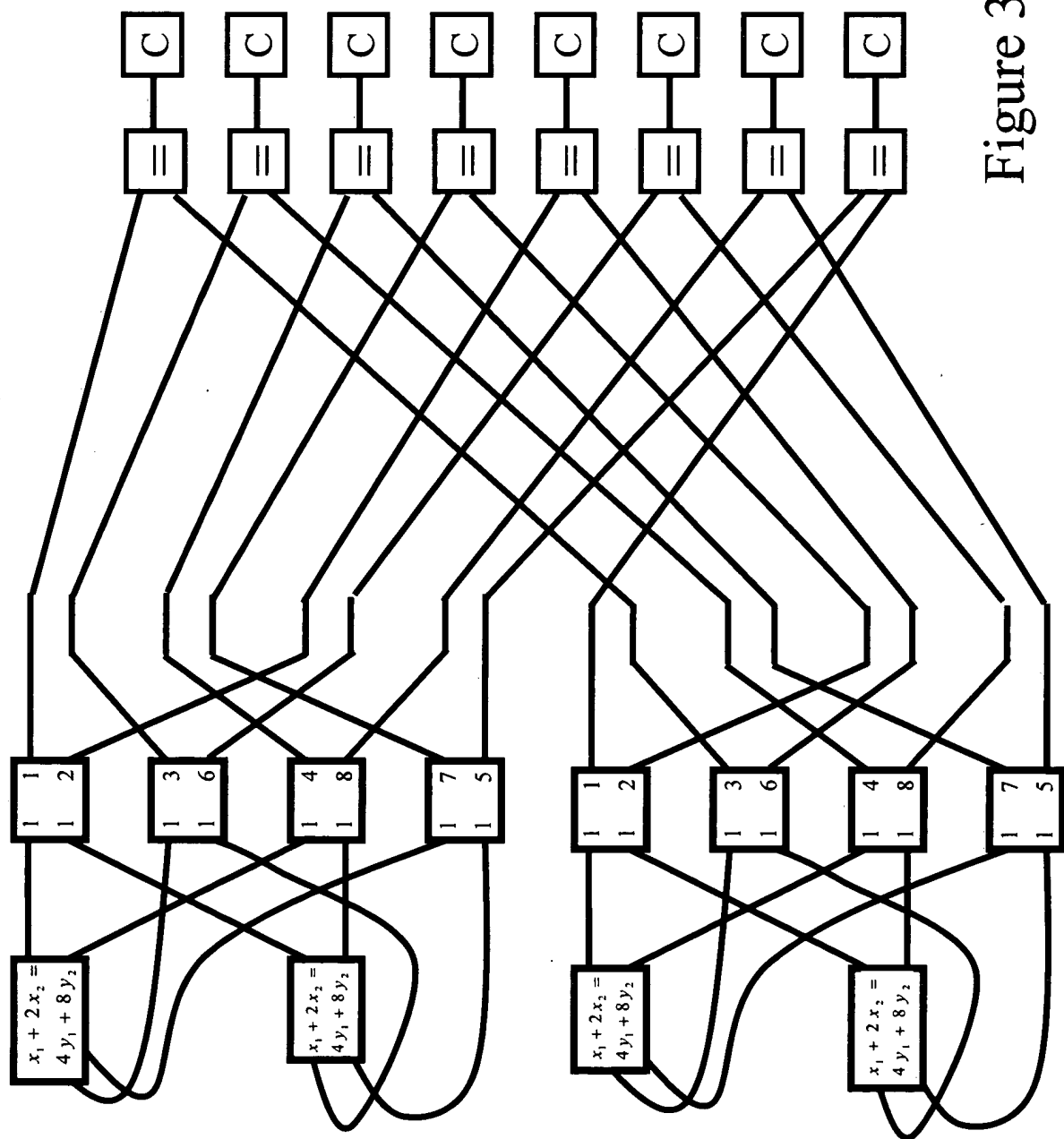


Figure 31

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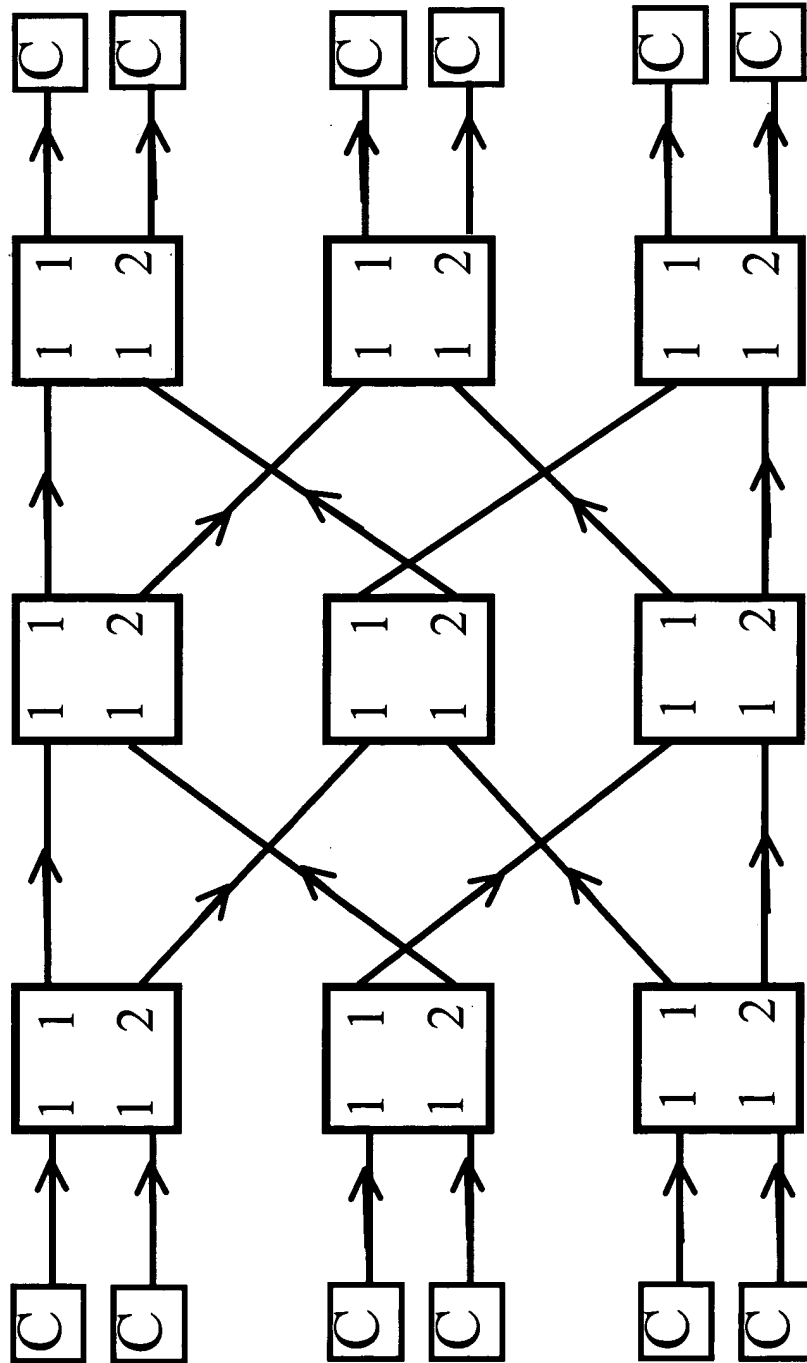


Figure 32

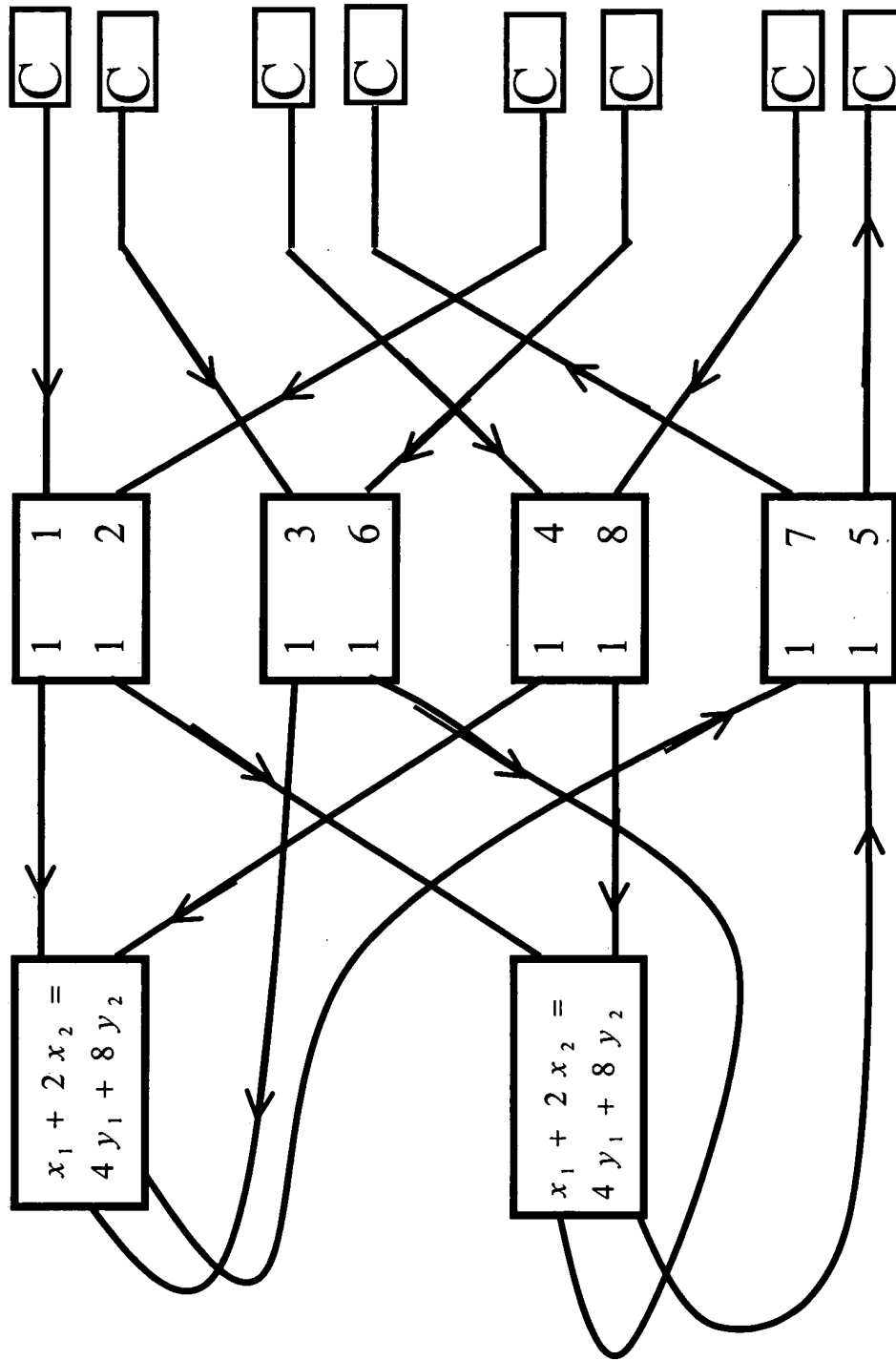


Figure 33

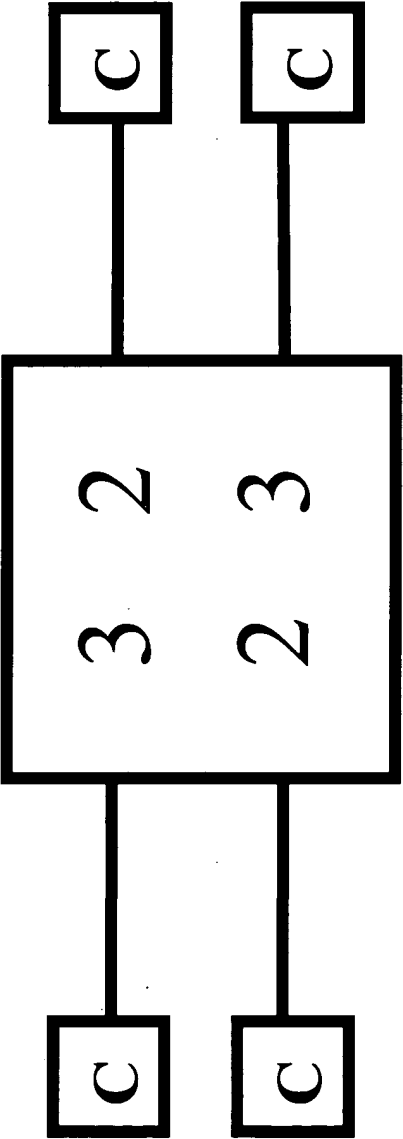


Figure 34